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Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-341



UH-60M Black Hawk Helicopter (UH-60M Black Hawk)

As of FY 2019 President's Budget

Defense Acquisition Management
Information Retrieval
(DAMIR)

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Sensitivity Originator

No originator info Available at this time.

Common Acronyms and Abbreviations for MDAP Programs

Acq O&M - Acquisition-Related Operations and Maintenance
ACAT - Acquisition Category
ADM - Acquisition Decision Memorandum
APB - Acquisition Program Baseline
APPN - Appropriation
APUC - Average Procurement Unit Cost
\$B - Billions of Dollars
BA - Budget Authority/Budget Activity
Blk - Block
BY - Base Year
CAPE - Cost Assessment and Program Evaluation
CARD - Cost Analysis Requirements Description
CDD - Capability Development Document
CLIN - Contract Line Item Number
CPD - Capability Production Document
CY - Calendar Year
DAB - Defense Acquisition Board
DAE - Defense Acquisition Executive
DAMIR - Defense Acquisition Management Information Retrieval
DoD - Department of Defense
DSN - Defense Switched Network
EMD - Engineering and Manufacturing Development
EVM - Earned Value Management
FOC - Full Operational Capability
FMS - Foreign Military Sales
FRP - Full Rate Production
FY - Fiscal Year
FYDP - Future Years Defense Program
ICE - Independent Cost Estimate
IOC - Initial Operational Capability
Inc - Increment
JROC - Joint Requirements Oversight Council
\$K - Thousands of Dollars
KPP - Key Performance Parameter
LRIP - Low Rate Initial Production
\$M - Millions of Dollars
MDA - Milestone Decision Authority
MDAP - Major Defense Acquisition Program
MILCON - Military Construction
N/A - Not Applicable
O&M - Operations and Maintenance
ORD - Operational Requirements Document
OSD - Office of the Secretary of Defense
O&S - Operating and Support
PAUC - Program Acquisition Unit Cost

PB - President's Budget
PE - Program Element
PEO - Program Executive Officer
PM - Program Manager
POE - Program Office Estimate
RDT&E - Research, Development, Test, and Evaluation
SAR - Selected Acquisition Report
SCP - Service Cost Position
TBD - To Be Determined
TY - Then Year
UCR - Unit Cost Reporting
U.S. - United States
USD(AT&L) - Under Secretary of Defense (Acquisition, Technology and Logistics)

Program Information

Program Name

UH-60M Black Hawk Helicopter (UH-60M Black Hawk)

DoD Component

Army

Responsible Office

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Date Assigned: June 18, 2015

References

SAR Baseline (Production Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated March 31, 2005

Approved APB

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated June 20, 2011

Mission and Description

The UH-60M Black Hawk Helicopter (UH-60M Black Hawk) serves as the Army's utility helicopter for the near- and mid-term force and is in line with the Army's Modernization Strategy, the National Military Strategy and the National Defense Strategy. The UH-60M Black Hawk is a digitally networked platform with greater range and lift to support maneuver commanders through air assault, general support, command and control and aeromedical evacuation. FRP for this new-build helicopter began in 2007. The UH-60M Black Hawk, with the integrated Medical Evacuation (MEDEVAC) Mission Equipment Package (MEP) kit, provides day/night and adverse weather emergency evacuation of casualties. The integration of the MEDEVAC MEP onto the UH-60M changes the nomenclature to HH-60M.

Executive Summary

Program Highlights Since Last Report

The UH-60M program requirements are stable and funding is adequate to meet cost, schedule and performance objectives established in the current approved APB. There are no increased risks to the UH-60M program since the last SAR.

The UH-60M program is in FRP and remains on schedule with a total of 995 aircraft procured to date: eight RDT&E, 982 Procurement (725 UH-60M and 257 HH-60M) and five UH-60M through Blackhawk Exchange and Sales Team Program. The final UH-60M procurement is planned for FY 2028.

The current Multi-Year Procurement contract (Multi-Year IX) covering FY 2017 through FY 2021 was awarded June 30, 2017.

The first lot of the Multi-Year IX contract (Lot 41) was awarded on June 30, 2017 and the second lot (Lot 42) was awarded on November 30, 2017. The first Multi-Year IX delivery occurred on October 12, 2017. A total of 900 aircraft were accepted as of January 31, 2018 (eight RDT&E aircraft, 658 UH-60M and 234 HH-60M).

There are no significant software-related issues with this program at this time.

History of Significant Developments Since Program Initiation

History of Significant Developments Since Program Initiation	
Date	Significant Development Description
April 2001	Milestone B DAB approved entry into System Development and Demonstration.
November 2002	The UH-60M System Preliminary Design Review was held at Sikorsky in Stratford, Connecticut.
June 2003	The UH-60M System Critical Design Review completed.
September 2003	The Developmental Test Pilot Familiarization Course was completed and the first flight of UH-60M Aircraft 1 was successfully conducted.
August 2004	Limited User Test in the Systems Integration Lab was successfully executed.
March 2005	The Milestone C ADM approved production of up to 40 LRIP aircraft and approval to award an Advance Procurement contract for the first lot of FRP aircraft.
June 2005	An LRIP contract for the UH-60M baseline aircraft was awarded.
November 2006	Initial Operational Test & Evaluation started on October 16, 2006 and was successfully completed four weeks ahead of schedule on November 21, 2006 with the aircraft performing well through all missions.
June 2007	The FRP decision was achieved and the ADM signed authorizing entry into FRP for the Black Hawk Upgrade Program to include both the UH-60M and HH-60M baseline aircraft.
December 2007	The Multi-Year VII production contract was awarded.
November 2008	The 159th Combat Aviation Brigade became the first UH-60M baseline unit deployed to a combat zone.
February 2010	A Configuration Steering Board (CSB) held on October 15, 2009, recommended to the DAE that the UH-60 Modernization Program restructure. The recommendation included three parts: 1) Produce UH-60M baseline aircraft only, 2) Complete Development Testing on Fly-By-Wire aircraft and 3) Migrate selected technologies from the Upgrade development efforts to the baseline configuration. The recommendation was approved in the February 18, 2010 DAE ADM which directed the program to rebaseline with updates to the Acquisition Strategy and Test & Evaluation Master Plan.
May 2010	The Aviation Synchronization Conference Council of Colonels recommended the Army Acquisition Objective increase from 1227 to 1367.
June 2011	The DAE approved the UH-60M Black Hawk APB completing the rebaseline.
July 2012	The eighth Multi-Year/Multi-Service Procurement Contract from FY 2012 through FY 2016 was awarded.
June 2017	The ninth Multi-Year Procurement Contract from FY 2017 through FY 2021 was awarded.

Threshold Breaches

APB Breaches

Schedule		<input type="checkbox"/>
Performance		<input type="checkbox"/>
Cost	RDT&E	<input type="checkbox"/>
	Procurement	<input type="checkbox"/>
	MILCON	<input type="checkbox"/>
	Acq O&M	<input type="checkbox"/>
O&S Cost		<input checked="" type="checkbox"/>
Unit Cost	PAUC	<input type="checkbox"/>
	APUC	<input type="checkbox"/>

Explanation of Breach

The O&S Cost Breach was previously reported in the December 2013 SAR.

Nunn-McCurdy Breaches

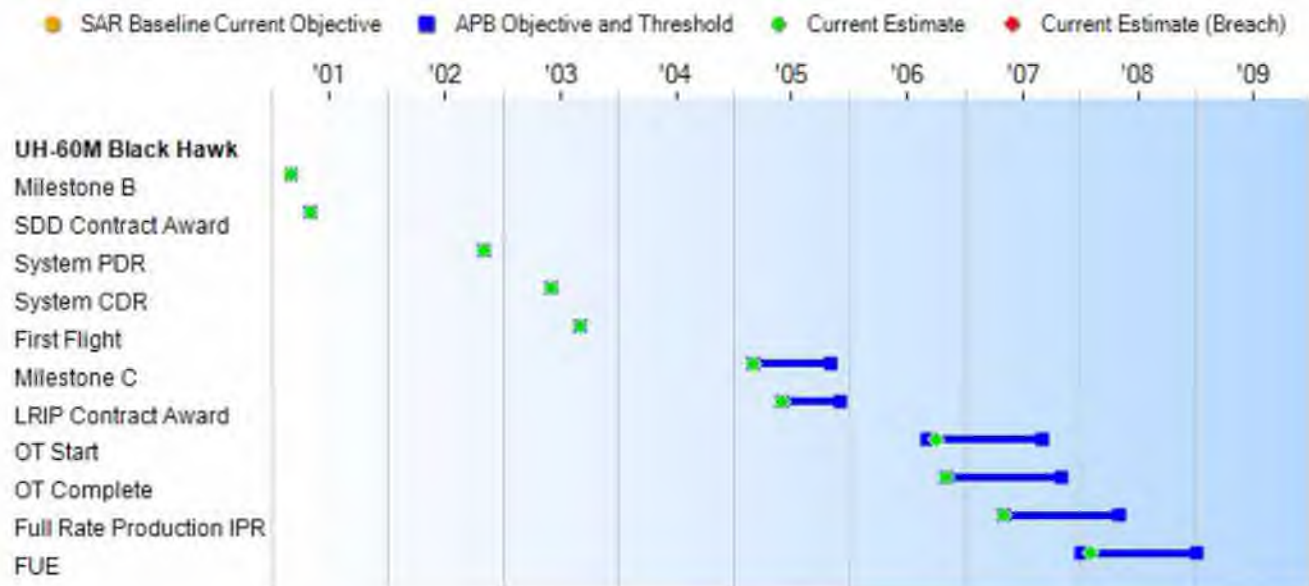
Current UCR Baseline

PAUC	None
APUC	None

Original UCR Baseline

PAUC	None
APUC	None

Schedule



Schedule Events				
Events	SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Current Estimate
Milestone B	Mar 2001	Mar 2001	Mar 2001	Mar 2001
SDD Contract Award	May 2001	May 2001	May 2001	May 2001
System PDR	Nov 2002	Nov 2002	Nov 2002	Nov 2002
System CDR	Jun 2003	Jun 2003	Jun 2003	Jun 2003
First Flight	Sep 2003	Sep 2003	Sep 2003	Sep 2003
Milestone C	Feb 2005	Mar 2005	Nov 2005	Mar 2005
LRIP Contract Award	Mar 2005	Jun 2005	Dec 2005	Jun 2005
OT Start	Sep 2006	Sep 2006	Sep 2007	Oct 2006
OT Complete	Nov 2006	Nov 2006	Nov 2007	Nov 2006
Full Rate Production IPR	May 2007	May 2007	May 2008	May 2007
FUE	Jan 2008	Jan 2008	Jan 2009	Feb 2008

Change Explanations

None

Acronyms and Abbreviations

CDR - Critical Design Review

FUE - First Unit Equipped

IPR - In-Process Review

OT - Operational Test

PDR - Preliminary Design Review

SDD - System Design & Development

Performance

Performance Characteristics				
SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Demonstrated Performance	Current Estimate
Key Performance Parameters (KPPs)				
Interoperability (meet IERs)				
All	N/A	N/A	N/A	N/A
Net-Ready				
All	All	All Critical	All	All
Survivability IR Signature				
N/A	Existing	Existing	Existing	Existing
Aircraft Survivability Equipment				
N/A	Existing	Existing	Existing	Existing
Survivability Fuel Cells				
N/A	14.5mm	7.62mm	7.62mm	7.62mm
Force Protection Armor Plating				
N/A	14.5mm	7.62mm	7.62mm	7.62mm
External Lift Payload				
10,000	10,000	4,500	4,888	4,888
Non-KPPs				
Troop Movement				
Airspeed (Sustained Cruise) (KTAS)				
175	175	145	142.0	145.0
One Engine Inoperative (KTAS)				
100	100	100	TBD	100.0
Combat Radius (w/20 min reserve) (KM)				
500	500	225	225.0	225.6
Vertical Rate of Climb (fpm)				
750	750	500	725	725
Vertical Rate of Climb w/ One Engine Inoperative (fpm)				
200	200	100	TBD	100.0
Internal Lift Capability (290 lbs each)				
11	11	11	11	11
Self-Deploy Range (nautical miles)				

1260	1260	1056	TBD	1071
Ballistic Protection (ground fired armor piercing (mm))				
14.5	14.5	7.62	14.5	14.5
Maintainability (mhrs per flight hr)				
4.6	4.6	5.4	2.3	4.1
Unscheduled mhrs per flight hr				
1.3	1.3	2.1	0.4	1.1
External Lift				
Vertical Rate of Climb (fpm)				
500	500	200	200	200
Combat Radius (w/20 min reserve) (KM)				
275	275	135	135	135

Requirements Reference

ORD dated January 29, 2007

Change Explanations

None

Acronyms and Abbreviations

fpm - feet per minute
 hr - hour
 IER - Information Exchange Requirement
 IR - infrared
 KM - kilometer
 KTAS - Knots True Air Speed
 lbs - pounds
 mhrs - man-hours
 min - minutes
 mm - millimeter
 w/ - with

Track to Budget

RDT&E

Appn	BA	PE
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Army 2040 07 0203744A

Project	Name
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504 UH-60M Recapitalization/Modifications (Sunk)

Notes

Only UH-60M Black Hawk and UH-60M Upgrade Technologies (RDT&E only) funds are included in this SAR.

Procurement

Appn	BA	PE
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Army 2031 01 0210101A

Line Item	Name
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A05002 Black Hawk UH-60M (MYP)

Army 2031 02 0210101A

Line Item	Name
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AA0492 Black Hawk UH-60M Upgrade/Recap (Sunk)

Notes

The Aircraft Procurement, Army (APA) Line Item AA0492 is shared with other UH-60M Black Hawk modifications such as Crashworthy External Fuel System, Mission Equipment Packages and other safety modifications.

The APA Line Item AA0005 is the parent to the APA Line Item A05002.

Acq O&M

Appn	BA	PE
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Army 2020 04 0702806A

Subactivity Group	Name
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435 Acquisition and Management Support: Utility Helicopters (Shared)

Cost and Funding

Cost Summary

Total Acquisition Cost							
Appropriation	BY 2005 \$M			BY 2005 \$M	TY \$M		
	SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Production Estimate	Current APB Production Objective	Current Estimate
RDT&E	717.5	761.3	837.4	761.3	739.3	780.4	780.4
Procurement	16084.2	21873.7	24061.1	21046.9	20107.8	27314.2	26474.4
Flyaway	--	--	--	19844.5	--	--	24983.6
Recurring	--	--	--	19627.2	--	--	24732.5
Non Recurring	--	--	--	217.3	--	--	251.1
Support	--	--	--	1202.4	--	--	1490.8
Other Support	--	--	--	998.1	--	--	1231.3
Initial Spares	--	--	--	204.3	--	--	259.5
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	--	135.1	0.0	0.0	193.0
Total	16801.7	22635.0	N/A	21943.3	20847.1	28094.6	27447.8

Cost Notes

In accordance with Section 842 of the National Defense Authorization Act for FY 2017, which amended title 10 U.S.C. § 2334, the Director of Cost Assessment and Program Evaluation, and the Secretary of the military department concerned or the head of the Defense Agency concerned, must issue guidance requiring a discussion of risk, the potential impacts of risk on program costs, and approaches to mitigate risk in cost estimates for MDAPs and major subprograms. The information required by the guidance is to be reported in each SAR. This guidance is not yet available; therefore, the information on cost risk is not contained in this SAR.

Beginning in FY 2019, the Army realigned direct civilian personnel pay costs from RDT&E and Procurement investment accounts to O&M to provide additional transparency and auditability.

Total Quantity			
Quantity	SAR Baseline Production Estimate	Current APB Production	Current Estimate
RDT&E	8	8	8
Procurement	1227	1367	1362
Total	1235	1375	1370

Quantity Notes

Two additional aircraft in FY 2015 and three additional aircraft in FY 2016 were procured as a result of the Black Hawk Exchange and Sales Team (BEST) program. The Army Acquisition Executive approved BEST program avoids demilitarization and divestment cost and applies non-appropriated funding proceeds received from the divestiture of non-excess, obsolete H-60 aircraft towards the procurement of replacement H-60M aircraft. The authorities and policies to execute and administer the BEST program are provided in section 503 of title 40, U.S. Code and Army Regulation 725-1.

\$1,024.603M FY 2018 Procurement funding supports purchase of 50 H-60M aircraft. The FY 2019 PB P-Form states FY 2018 quantity of 48. The increase in quantity is due cost avoidance with award of the Multi-Year IX Contract on June 30, 2017.

\$21.246M FY 2019 Overseas Contingency Operations Procurement funding supports purchase of one H-60M War Replacement Aircraft for the U.S. Special Operations Command.

Cost and Funding

Funding Summary

Appropriation Summary									
FY 2019 President's Budget / December 2017 SAR (TY\$ M)									
Appropriation	Prior	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
RDT&E	780.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	780.4
Procurement	16322.7	1024.6	1116.2	1034.1	1082.7	829.9	817.2	4247.0	26474.4
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	19.1	16.5	16.9	17.2	17.6	105.7	193.0
PB 2019 Total	17103.1	1024.6	1135.3	1050.6	1099.6	847.1	834.8	4352.7	27447.8
PB 2018 Total	17103.2	1024.6	968.6	1010.3	996.4	899.7	848.3	5175.3	28026.4
Delta	-0.1	0.0	166.7	40.3	103.2	-52.6	-13.5	-822.6	-578.6

Quantity Summary										
FY 2019 President's Budget / December 2017 SAR (TY\$ M)										
Quantity	Undistributed	Prior	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Development	8	0	0	0	0	0	0	0	0	8
Production	0	934	50	50	48	54	28	35	163	1362
PB 2019 Total	8	934	50	50	48	54	28	35	163	1370
PB 2018 Total	8	934	48	40	41	41	31	36	191	1370
Delta	0	0	2	10	7	13	-3	-1	-28	0

Cost and Funding

Annual Funding By Appropriation

Annual Funding							
2040 RDT&E Research, Development, Test, and Evaluation, Army							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2000	--	--	--	--	--	--	9.5
2001	--	--	--	--	--	--	28.8
2002	--	--	--	--	--	--	55.9
2003	--	--	--	--	--	--	96.8
2004	--	--	--	--	--	--	144.8
2005	--	--	--	--	--	--	99.8
2006	--	--	--	--	--	--	106.6
2007	--	--	--	--	--	--	117.5
2008	--	--	--	--	--	--	84.9
2009	--	--	--	--	--	--	30.8
2010	--	--	--	--	--	--	5.0
Subtotal	8	--	--	--	--	--	780.4

Annual Funding 2040 RDT&E Research, Development, Test, and Evaluation, Army							
Fiscal Year	Quantity	BY 2005 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2000	--	--	--	--	--	--	10.2
2001	--	--	--	--	--	--	30.5
2002	--	--	--	--	--	--	58.6
2003	--	--	--	--	--	--	99.5
2004	--	--	--	--	--	--	145.4
2005	--	--	--	--	--	--	97.4
2006	--	--	--	--	--	--	101.3
2007	--	--	--	--	--	--	109.0
2008	--	--	--	--	--	--	77.3
2009	--	--	--	--	--	--	27.7
2010	--	--	--	--	--	--	4.4
Subtotal	8	--	--	--	--	--	761.3

Annual Funding 2031 Procurement Aircraft Procurement, Army							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2004	--	--	13.5	--	13.5	--	13.5
2005	5	82.5	6.1	5.6	94.2	2.8	97.0
2006	17	241.3	7.5	4.5	253.3	15.2	268.5
2007	72	1086.3	85.8	45.4	1217.5	54.4	1271.9
2008	77	1144.4	85.3	63.3	1293.0	61.6	1354.6
2009	66	962.3	92.0	9.0	1063.3	48.2	1111.5
2010	84	1182.5	172.0	4.5	1359.0	124.2	1483.2
2011	99	1512.5	131.4	36.2	1680.1	108.8	1788.9
2012	89	1298.0	174.5	35.9	1508.4	189.1	1697.5
2013	100	1263.9	179.6	3.7	1447.2	130.3	1577.5
2014	70	980.7	171.1	1.2	1153.0	76.0	1229.0
2015	87	1211.3	181.1	3.4	1395.8	72.9	1468.7
2016	107	1425.5	186.3	4.1	1615.9	85.9	1701.8
2017	61	1021.5	183.7	4.3	1209.5	49.6	1259.1
2018	50	762.1	173.5	0.9	936.5	88.1	1024.6
2019	50	895.7	163.5	0.9	1060.1	56.1	1116.2
2020	48	820.4	170.6	0.9	991.9	42.2	1034.1
2021	54	858.2	180.4	1.8	1040.4	42.3	1082.7
2022	28	578.0	198.0	10.5	786.5	43.4	829.9
2023	35	564.5	202.6	11.6	778.7	38.5	817.2
2024	36	645.9	210.9	0.8	857.6	30.0	887.6
2025	36	648.2	216.6	0.7	865.5	27.2	892.7
2026	36	659.8	222.6	0.7	883.1	31.8	914.9
2027	28	587.4	225.9	0.6	813.9	28.2	842.1
2028	27	403.4	226.1	0.6	630.1	28.3	658.4
2029	--	--	35.6	--	35.6	15.7	51.3
Subtotal	1362	20836.3	3896.2	251.1	24983.6	1490.8	26474.4

Annual Funding 2031 Procurement Aircraft Procurement, Army							
Fiscal Year	Quantity	BY 2005 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2004	--	--	13.4	--	13.4	--	13.4
2005	5	79.6	5.8	5.4	90.8	2.7	93.5
2006	17	226.6	7.0	4.2	237.8	14.3	252.1
2007	72	999.9	78.9	41.8	1120.6	50.1	1170.7
2008	77	1036.9	77.2	57.4	1171.5	55.8	1227.3
2009	66	859.5	82.2	8.0	949.7	43.1	992.8
2010	84	1038.2	150.9	4.0	1193.1	109.1	1302.2
2011	99	1304.2	113.3	31.2	1448.7	93.8	1542.5
2012	89	1100.6	148.0	30.4	1279.0	160.3	1439.3
2013	100	1053.2	149.8	3.1	1206.1	108.5	1314.6
2014	70	805.3	140.5	1.0	946.8	62.4	1009.2
2015	87	980.5	146.5	2.8	1129.8	59.0	1188.8
2016	107	1140.1	149.0	3.3	1292.4	68.7	1361.1
2017	61	803.3	144.4	3.4	951.1	39.0	990.1
2018	50	588.3	133.9	0.7	722.9	68.0	790.9
2019	50	677.0	123.5	0.7	801.2	42.4	843.6
2020	48	607.9	126.5	0.7	735.1	31.2	766.3
2021	54	623.5	131.1	1.3	755.9	30.7	786.6
2022	28	411.7	141.0	7.5	560.2	30.9	591.1
2023	35	394.2	141.5	8.1	543.8	26.8	570.6
2024	36	442.2	144.3	0.5	587.0	20.6	607.6
2025	36	435.1	145.4	0.5	581.0	18.2	599.2
2026	36	434.2	146.4	0.5	581.1	20.9	602.0
2027	28	378.9	145.7	0.4	525.0	18.2	543.2
2028	27	255.1	143.0	0.4	398.5	17.9	416.4
2029	--	--	22.0	--	22.0	9.8	31.8
Subtotal	1362	16676.0	2951.2	217.3	19844.5	1202.4	21046.9

Annual Funding		
2020 Acq O&M Operation and Maintenance, Army		
Fiscal Year	TY \$M	
	Total Program	
2019		19.1
2020		16.5
2021		16.9
2022		17.2
2023		17.6
2024		18.3
2025		18.7
2026		19.1
2027		19.5
2028		19.9
2029		10.2
Subtotal		193.0

Annual Funding 2020 Acq O&M Operation and Maintenance, Army	
Fiscal Year	BY 2005 \$M
	Total Program
2019	14.7
2020	12.5
2021	12.5
2022	12.5
2023	12.5
2024	12.8
2025	12.8
2026	12.8
2027	12.8
2028	12.8
2029	6.4
Subtotal	135.1

Beginning in FY 2019, the Army realigned direct civilian personnel pay costs from RDT&E and Procurement investment accounts to O&M to provide additional transparency and auditability.

Low Rate Initial Production

Item	Initial LRIP Decision	Current Total LRIP
Approval Date	3/31/2005	3/31/2005
Approved Quantity	40	40
Reference	Milestone C ADM	Milestone C ADM
Start Year	2005	2005
End Year	2007	2007

The Milestone C ADM, dated March 31, 2005, approved production of up to 40 LRIP aircraft and approval to award an Advance Procurement contract for the first lot of FRP aircraft.

Foreign Military Sales

Country	Date of Sale	Quantity	Total Cost \$M	Description
Saudi Arabia	7/5/2016	9	147.4	Case Number SR-B-ZAD
Jordan	6/10/2016	4	52.0	Case Number U6-B-UAA
Jordan	3/12/2016	8	133.0	Case Number U4-B-UXA
Saudi Arabia	9/15/2015	24	698.0	Case Number SI-B-WXZ
Saudi Arabia	9/15/2015	24	733.0	Case Number SI-B-WYA
Jordan	6/19/2015	1	17.2	Case Number JO-B-YAT
Slovakia	4/21/2015	9	170.1	Case Number LO-B-UCI
Tunisia	1/12/2015	8	114.7	Case Number TU-B-USS
Mexico	8/8/2014	7	163.6	Case Number MX-B-UEU
Mexico	7/22/2014	18	462.2	Case Number MX-B-UES
Thailand	9/25/2012	1	31.0	Case Number TH-B-UAE
Thailand	12/26/2011	2	62.3	Case Number TH-B-UAD
Saudi Arabia	11/30/2011	24	638.3	Case Number SI-B-WXP
Sweden	1/14/2011	15	275.7	Case Number SW-B-WAD
Taiwan	11/22/2010	60	1717.7	Case Number TW-B-YZC
Jordan	9/1/2010	2	26.3	Case Number JO-B-WAT
Mexico	8/3/2010	3	83.9	Case Number MX-B-UEJ
United Arab Emirates	12/12/2007	40	825.0	Case Number AE-B-ZUE
Bahrain	9/18/2007	9	151.9	Case Number BA-B-UIR

Notes

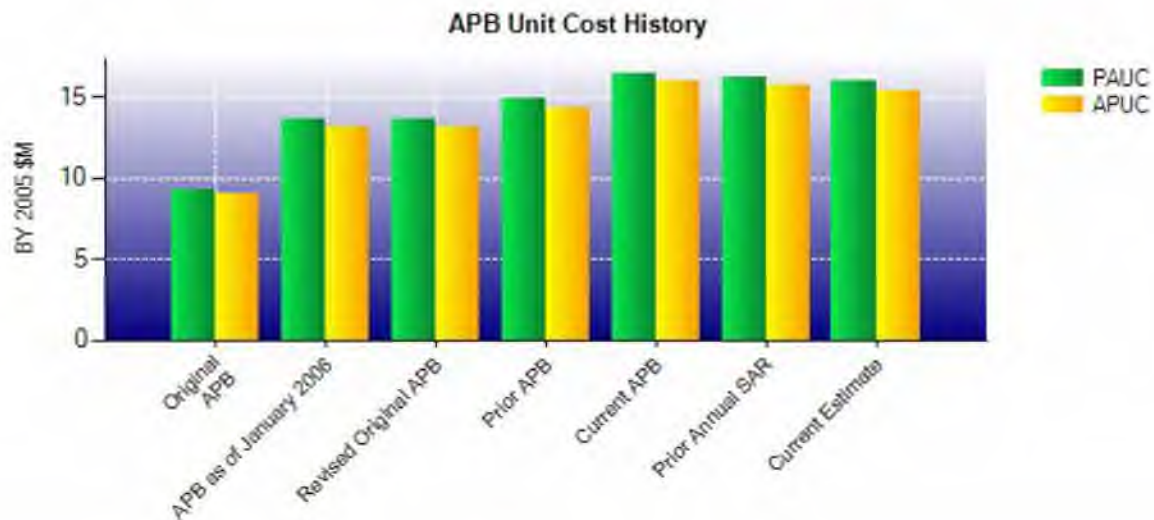
To date all FMS are for the UH-60M Black Hawk configuration of the aircraft. The Total Cost reflects all costs associated with the procurement of the aircraft and other services provided to the specific country to include training and spares.

Nuclear Costs

None

Unit Cost

Current UCR Baseline and Current Estimate (Base-Year Dollars)			
Item	BY 2005 \$M	BY 2005 \$M	% Change
	Current UCR Baseline (Jun 2011 APB)	Current Estimate (Dec 2017 SAR)	
Program Acquisition Unit Cost			
Cost	22635.0	21943.3	
Quantity	1375	1370	
Unit Cost	16.462	16.017	-2.70
Average Procurement Unit Cost			
Cost	21873.7	21046.9	
Quantity	1367	1362	
Unit Cost	16.001	15.453	-3.42
Original UCR Baseline and Current Estimate (Base-Year Dollars)			
Item	BY 2005 \$M	BY 2005 \$M	% Change
	Revised Original UCR Baseline (Mar 2005 APB)	Current Estimate (Dec 2017 SAR)	
Program Acquisition Unit Cost			
Cost	16801.7	21943.3	
Quantity	1235	1370	
Unit Cost	13.605	16.017	+17.73
Average Procurement Unit Cost			
Cost	16084.2	21046.9	
Quantity	1227	1362	
Unit Cost	13.109	15.453	+17.88



APB Unit Cost History					
Item	Date	BY 2005 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	Feb 2002	9.250	9.042	12.008	11.812
APB as of January 2006	Mar 2005	13.605	13.109	16.880	16.388
Revised Original APB	Mar 2005	13.605	13.109	16.880	16.388
Prior APB	Feb 2007	14.872	14.338	18.840	18.319
Current APB	Jun 2011	16.462	16.001	20.432	19.981
Prior Annual SAR	Dec 2016	16.219	15.755	20.457	20.004
Current Estimate	Dec 2017	16.017	15.453	20.035	19.438

SAR Unit Cost History

Initial SAR Baseline to Current SAR Baseline (TY \$M)									
Initial PAUC Development Estimate	Changes								PAUC Production Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
12.008	-0.325	4.705	-0.262	0.996	-0.326	0.000	0.084	4.872	16.880

Current SAR Baseline to Current Estimate (TY \$M)									
PAUC Production Estimate	Changes								PAUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
16.880	-0.314	0.675	1.051	0.478	0.688	0.000	0.577	3.155	20.035

Initial SAR Baseline to Current SAR Baseline (TY \$M)									
Initial APUC Development Estimate	Changes								APUC Production Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
11.812	-0.324	4.469	-0.287	0.987	-0.354	0.000	0.085	4.576	16.388

Current SAR Baseline to Current Estimate (TY \$M)									
APUC Production Estimate	Changes								APUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
16.388	-0.319	0.727	1.037	0.483	0.541	0.000	0.581	3.050	19.438

SAR Baseline History				
Item	SAR Planning Estimate	SAR Development Estimate	SAR Production Estimate	Current Estimate
Milestone A	N/A	N/A	N/A	N/A
Milestone B	N/A	Apr 2001	Mar 2001	Mar 2001
Milestone C	N/A	Mar 2004	Feb 2005	Mar 2005
FUE	N/A	Sep 2006	Jan 2008	Feb 2008
Total Cost (TY \$M)	N/A	14662.0	20847.1	27447.8
Total Quantity	N/A	1221	1235	1370
PAUC	N/A	12.008	16.880	20.035

Cost Variance

Summary TY \$M					
Item	RDT&E	Procurement	MILCON	Acq O&M	Total
SAR Baseline (Production Estimate)	739.3	20107.8	--	--	20847.1
Previous Changes					
Economic	+3.9	-337.9	--	--	-334.0
Quantity	--	+3203.0	--	--	+3203.0
Schedule	+27.5	+1489.3	--	--	+1516.8
Engineering	-2.1	+657.2	--	--	+655.1
Estimating	+11.8	+1329.1	--	--	+1340.9
Other	--	--	--	--	--
Support	--	+797.5	--	--	+797.5
Subtotal	+41.1	+7138.2	--	--	+7179.3
Current Changes					
Economic	--	-96.0	--	--	-96.0
Quantity	--	--	--	--	--
Schedule	--	-77.4	--	--	-77.4
Engineering	--	--	--	--	--
Estimating	--	-591.7	--	+193.0	-398.7
Other	--	--	--	--	--
Support	--	-6.5	--	--	-6.5
Subtotal	--	-771.6	--	+193.0	-578.6
Total Changes	+41.1	+6366.6	--	+193.0	+6600.7
CE - Cost Variance	780.4	26474.4	--	193.0	27447.8
CE - Cost & Funding	780.4	26474.4	--	193.0	27447.8

Summary BY 2005 \$M					
Item	RDT&E	Procurement	MILCON	Acq O&M	Total
SAR Baseline (Production Estimate)	717.5	16084.2	--	--	16801.7
Previous Changes					
Economic	--	--	--	--	--
Quantity	--	+2272.3	--	--	+2272.3
Schedule	+24.1	+894.8	--	--	+918.9
Engineering	+9.5	+529.3	--	--	+538.8
Estimating	+10.2	+1054.0	--	--	+1064.2
Other	--	--	--	--	--
Support	--	+623.9	--	--	+623.9
Subtotal	+43.8	+5374.3	--	--	+5418.1
Current Changes					
Economic	--	--	--	--	--
Quantity	--	--	--	--	--
Schedule	--	--	--	--	--
Engineering	--	--	--	--	--
Estimating	--	-406.3	--	+135.1	-271.2
Other	--	--	--	--	--
Support	--	-5.3	--	--	-5.3
Subtotal	--	-411.6	--	+135.1	-276.5
Total Changes	+43.8	+4962.7	--	+135.1	+5141.6
CE - Cost Variance	761.3	21046.9	--	135.1	21943.3
CE - Cost & Funding	761.3	21046.9	--	135.1	21943.3

Previous Estimate: December 2016

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-96.0
Acceleration of procurement buy profile from FY 2018 through FY 2021. (Schedule)	0.0	-77.4
Incorporation of Multi-Year IX Contract with resulting cost savings. (Estimating)	-294.2	-424.7
Revised Estimate to reflect the Army's realignment of direct civilian pay costs from RDT&E and Procurement investment accounts to O&M to provide additional transparency and auditability. (Estimating)	-132.8	-193.0
Adjustment for current and prior escalation. (Estimating)	+20.7	+26.0
Adjustment for current and prior escalation. (Support)	+1.4	+1.9
Decrease in Other Support due to acceleration of procurement buy profile which reduces out-year fieldings. (Support)	-3.4	-4.2
Decrease in Initial Spares due to acceleration of procurement buy profile which reduces spares requirement. (Support)	-3.3	-4.2
Procurement Subtotal	-411.6	-771.6

Acq O&M	\$M	
Current Change Explanations	Base Year	Then Year
Revised Estimate to reflect the Army's realignment of direct civilian pay costs from RDT&E and Procurement investment accounts to O&M to provide additional transparency and auditability. (Estimating)	+135.1	+193.0
Acq O&M Subtotal	+135.1	+193.0

Contracts

Contract Identification

Appropriation: Procurement
Contract Name: Multi-Year/Multi-Service 8
Contractor: Sikorsky Aircraft Corporation
Contractor Location: 6900 Main St
 Stratford, CT 06614
Contract Number: W58RGZ-12-C-0008
Contract Type: Firm Fixed Price (FFP)
Award Date: July 06, 2012
Definitization Date: July 06, 2012

Contract Price

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
4347.5	N/A	354	5491.6	N/A	462	5491.6	5491.6

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to purchase of additional aircraft.

Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this (FFP) contract.

Notes

This information includes only the Army portion of the current Multi-Year VIII contract.

This contract is more than 90% complete; therefore, this is the final report for this contract.

Contract Identification

Appropriation: Procurement
Contract Name: Multi-Year IX
Contractor: Sikorsky Aircraft Corporation
Contractor Location: 6900 Main St
 Stratford, CT 06614
Contract Number: W58RGZ-17-C-0009
Contract Type: Firm Fixed Price (FFP)
Award Date: June 30, 2017
Definitization Date: June 30, 2017

Contract Price

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
3199.2	N/A	217	3512.8	N/A	242	3512.8	3512.8

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to purchase of additional aircraft.

Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this (FFP) contract.

Notes

This is the first time this contract is being reported.

This information includes only the Army portion of the current Multi-Year IX contract.

Deliveries and Expenditures

Deliveries				
Delivered to Date	Planned to Date	Actual to Date	Total Quantity	Percent Delivered
Development	8	8	8	100.00%
Production	892	892	1362	65.49%
Total Program Quantity Delivered	900	900	1370	65.69%

Expended and Appropriated (TY \$M)			
Total Acquisition Cost	27447.8	Years Appropriated	19
Expended to Date	17653.8	Percent Years Appropriated	63.33%
Percent Expended	64.32%	Appropriated to Date	18127.7
Total Funding Years	30	Percent Appropriated	66.04%

The above data is current as of February 12, 2018.

The above data includes Army information only.

Operating and Support Cost

Cost Estimate Details

Date of Estimate: January 24, 2018
Source of Estimate: POE
Quantity to Sustain: 1365
Unit of Measure: Aircraft
Service Life per Unit: 25.00 Years
Fiscal Years in Service: FY 2006 - FY 2053

A total of 1,375 UH-60M aircraft will be procured. 1,370 are Procurement-funded and five procured with proceeds resulting from the Blackhawk Exchange and Sales Team program which avoids the divestment (demilitarization) cost. These funds are applied toward the H-60M aircraft via reimbursable transfer credit. Of the total 1,375 UH-60M aircraft, 1,365 will be fielded and sustained. The original eight RDT&E-funded prototype aircraft and two procurement aircraft in upgrade configuration will not be fielded or sustained. The two aircraft in the upgrade configuration are test aircraft.

Sustainment Strategy

The maintenance concept for the UH-60M Black Hawk is organic, two-level maintenance with the exception of the training base. The training base will continue as Contractor Logistics Support.

Antecedent Information

The antecedent system is UH-60L Black Hawk. The total O&S Costs for UH-60L Black Hawk were not reported in the last UH-60L Black Hawk SAR dated December 31, 1999. The information in the O&S Cost Table is based on O&S Management Information Systems (OSMIS) data for the UH-60L Black Hawk (excluding Contingency Operations). Sustaining support costs for the UH-60L Black Hawk aircraft are not included in the table because the costs (software maintenance, system specific base operations, systems engineering/program management and transportation) are not collected in OSMIS. There are 780 UH-60L Black Hawks in the current fleet with an Economic Useful Life expectancy of 25 years.

Annual O&S Costs BY2005 \$K		
Cost Element	UH-60M Black Hawk Average Annual Cost Per Aircraft	UH-60L Black Hawk (Antecedent) Average Annual O&S Cost Per Aircraft
Unit-Level Manpower	427.000	426.000
Unit Operations	54.000	54.000
Maintenance	375.000	285.000
Sustaining Support	1.000	0.000
Continuing System Improvements	6.000	0.000
Indirect Support	216.000	216.000
Other	0.000	0.000
Total	1079.000	981.000

Item	Total O&S Cost \$M			
	UH-60M Black Hawk			UH-60L Black Hawk (Antecedent)
	Current Production APB Objective/Threshold		Current Estimate	
Base Year	17652.5	19417.8	36815.8¹	N/A
Then Year	26086.5	N/A	59272.6	N/A

¹ APB O&S Cost Breach

The UH-60M Black Hawk APB dated June 2011 represents O&M costs only and a 20-year service life. The Current Estimate reflects all O&S costs and a 25-year service life. The key difference between the O&M cost and the O&S cost is that O&M costs do not include Military Personnel costs.

Equation to Translate Annual Cost to Total Cost

Average Annual Cost Per Aircraft x Quantity Fielded x Economic Useful Life
 \$1.078850M per year x 1365 aircraft x 25 years = \$36,815.8 (BY 2005 \$M)

O&S Cost Variance		
Category	BY 2005 \$M	Change Explanations
Prior SAR Total O&S Estimates - Dec 2016 SAR	36820.3	
Programmatic/Planning Factors	-4.5	Adjustments due to acceleration of the procurement profile.
Cost Estimating Methodology	0.0	
Cost Data Update	0.0	
Labor Rate	0.0	
Energy Rate	0.0	
Technical Input	0.0	
Other	0.0	
Total Changes	-4.5	
Current Estimate	36815.8	

Disposal Estimate Details

Date of Estimate: January 24, 2018
Source of Estimate: POE
Disposal/Demilitarization Total Cost (BY 2005 \$M): Total costs for disposal of all Aircraft are 77.8